Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

IN THE CLAIMS

This listing of claims will replace all prior versions, and

listings, of claims in the application:

Listing of Claims:

1. (Currently Amended)   A device for recording information in

blocks having logical addresses, ~~which~~ the device ~~comprises~~

comprising:

a recording ~~means~~ unit for recording marks in a track on a

record carrier representing the information,

~~control means~~ a controller for controlling the recording by

locating each block at a physical address in the track, the ~~control~~

~~means~~ controller comprising:

an addressing ~~means~~ unit for translating the logical addresses

into the physical addresses and vice versa in dependence of defect

management information,

a defect management ~~means~~ unit for detecting defects and

Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

maintaining the defect management information in defect management

areas on the record carrier,

the defect management information including assignment

information indicative of assignment of physical addresses in first

parts of the track to at least one user data area, and assignment

of physical addresses in second parts of the track to defect

management areas, and the defect management information including

remapping information indicative for translating a logical address

initially mapped to a physical address exhibiting a defect to an

alternate physical address in a defect management area, and

an assignment ~~means~~ unit for adapting the assignment

information in dependence of a detected defect, detected during

recording, by ~~assigning an additional physical address range to an~~

~~additional defect management area, the additional physical address~~

~~range~~ creating new defect management area having a starting

physical address near the detected defect.

2.(Currently Amended) The device as claimed in claim 1,

wherein the ~~assignment means are for assigning the additional~~

Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

~~physical address range including~~ new defect management area

includes the detected defect.

3.(Currently Amended)   The device as claimed in claim 1,

wherein the ~~assignment means are for assigning the additional~~

~~physical address range having~~ new defect management area has a

predefined size, or a size based on defect parameters of a

preceding or following recording area, ~~in particular the~~ including

at least one of an amount and distribution of defect management

areas already assigned, ~~the~~ an amount of user area between the

~~additional physical address range~~ new defect management area and a

preceding or following defect management area, and/or detected

defects.

4.(Currently Amended)   The device as claimed in claim 1,

wherein the ~~assignment means are for assigning the additional~~

~~physical address range having~~ new defect management area has a size

including at least a first detected defect, a second detected

defect and the physical addresses between the first and second

Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

detected defect.

5. (Currently Amended)   The device as claimed in claim 1,

wherein the ~~assignment means are for assigning the additional~~

~~physical address range to~~ new defect management area include a

range of physical address in a part of the track originally

assigned to the at least one user data area, ~~in particular~~ the part

of the track being a free space in the user data area.

6. (Currently Amended)   The device as claimed in claim 1,

wherein the device comprises a contiguous recording detection ~~means~~

unit for detecting a series of blocks having a continuous logical

address range to be recorded in a corresponding allocated physical

address range, and

the ~~assignment means are for assigning the additional physical~~

~~address range~~ new defect management area is outside the allocated

physical address range.

7. (Currently Amended)   The device as claimed in claim 6,

Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

wherein the contiguous recording detection ~~means are~~ unit is configured for detecting a continuous recordings indicator in a recording command, or for detecting the series of blocks representing real-time information, ~~in particular video information,~~ or for detecting file system information for detecting that the series of blocks constitute a file.

8.(Currently Amended)   A method of recording of information in blocks having logical addresses located at a physical address in a track on a record carrier,

the logical addresses corresponding to physical addresses in dependence of defect management information,

defects being detected and the defect management information being maintained in defect management areas on the record carrier, and

the defect management information including assignment information indicative of assignment of physical addresses in first parts of the track to at least one user data area, and assignment of physical addresses in second parts of the track to defect

Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

management areas, and the defect management information including
remapping information indicative for translating a logical address
initially mapped to a physical address exhibiting a defect to an
alternate physical address in a defect management area,

the method comprising the acts of:

adapting the assignment information in dependence of a
detected defect, detected during recording, by ~~assigning an
additional physical address range to an additional defect
management area, the additional physical address range~~ creating new
defect management area having a starting physical address near the
detected defect.

Claim 9 (Canceled)

10.(New)   The device of claim 1, wherein the new defect
management area starts at a location of the detected defect.

11.(New)   The device of claim 1, wherein the assignment unit
is configured to delay creation of the new defect management area

Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

until detection of a further detected defect.

12. (New)   The device of claim 1, wherein the assignment unit is configured to delay creation of the new defect management area until detection of a further detected defect and to create the new defect management area starting with a location of the further detected defect.

13. (New)   The device of claim 1, wherein the assignment unit is configured to delay creation of the new defect management area dependent on parameters including at least one of a distance from the detected defect to the previous defect management area, an amount of space left in the previous defect management area, and an amount of defects detected since the previous defect management area.

14. (New)   The method of claim 8, wherein the new defect management area starts at a location of the detected defect.

Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

15.(New) The method of claim 8, wherein creation of the new defect management area is delayed until detection of a further detected defect.

16.(New) The method of claim 8, wherein creation of the new defect management area is delayed until detection of a further detected defect and to the new defect management area is created starting with a location of the further detected defect.

17.(New) The method of claim 8, wherein creation of the new defect management area is delayed dependent on parameters including at least one of a distance from the detected defect to the previous defect management area, an amount of space left in the previous defect management area, and an amount of defects detected since the previous defect management area.

18.(New) The method of claim 8, wherein the new defect management area includes the detected defect.

Patent
Serial No. 10/10/564,911
Appeal Brief in Reply to Final Office Action of September 15, 2008,
and Advisory Action of November 21, 2008

19.(New) The method of claim 8, wherein the new defect

management area has a predefined size, or a size based on defect

parameters of a preceding or following recording area, including at

least one of an amount and distribution of defect management areas

already assigned, an amount of user area between the new defect

management area and a preceding or following defect management

area, and/or detected defects.